

IN THE CLAIMS

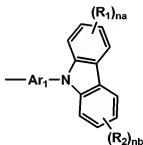
1. (Previously Presented) An organic electroluminescent element comprising an anode, a cathode and a component layer including a light emission layer, the component layer being provided between the anode and the cathode, wherein the component layer contains a compound represented by formula 1,

Formula 1



wherein A_1 represents a group represented by formula 2, provided that plural A_1 may be the same or different,

Formula 2



wherein Ar_1 represents a divalent aromatic hydrocarbon or aromatic heterocyclic group; R_1 and R_2 independently represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted cycloalkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted alkoxy group, a substituted or unsubstituted aryloxy group, a cyano group, a hydroxyl group, a substituted or unsubstituted alkenyl group, or a halogen atom; na and nb independently represent an integer of from 1 to 4; and X_1 represents a group represented by formula (d), (e), (f), (h), (i), (j), or (k),

formula (f)



formula (d)



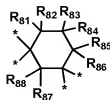
formula (e)



formula (h)



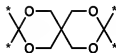
formula (i)



formula (j)



formula (k)



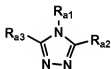
wherein R_{41} and R_{42} independently represent an alkyl group, provided that the total carbon atom number of the alkyl group is from 3 to 9; R_{51} and R_{52} independently represent a substituted or unsubstituted alkyl group, a substituted or unsubstituted cycloalkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted alkoxy group, a substituted or unsubstituted aryloxy group, a cyano group, a hydroxyl group, a substituted or unsubstituted alkenyl group, or a halogen atom; R_{61} represents an alkyl group; R_{71} through R_{78} independently represent a hydrogen atom, an alkyl group, or an alkoxy group; R_{81} through R_{88} independently represent a hydrogen atom, an alkyl group, or an alkoxy group; R_{91} through R_{98} independently represent a hydrogen atom, an alkyl group, or an alkoxy group; and “*” represents a linkage site, provided that when X_1 represents formula (d), (e), or (f), n is 2, and when X_1 represents formula (h), (i), (j), or (k), n is 4.

2. (Original) The organic electroluminescent element of claim 1, wherein a hole blocking layer is provided between the light emission layer and the cathode.

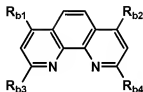
3. (Original) The organic electroluminescent element of claim 2, wherein the hole blocking layer is comprised of at least one selected from the group consisting of a styryl compound, a triazole derivative, a phenanthroline derivative, an oxadiazole derivative and a boron derivative.

4. (Original) The organic electroluminescent element of claim 2, wherein the hole blocking layer is comprised of at least one selected from the group consisting of compounds represented by formula 5, 6, 7 or 8,

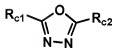
Formula 5



Formula 6



Formula 7



Formula 8



wherein R_{a1} through R_{a3} , R_{b1} through R_{b4} , and R_{c1} and R_{c2} independently represent an alkyl group, an aryl group or a heterocyclic group; and A_{ra} through A_{rc} independently represent an aryl group or a heterocyclic group.

5. (Original) The organic electroluminescent element of claim 1, wherein the light emission layer contains the compound represented by formula 1 above.

6. (Original) The organic electroluminescent element of claim 1, wherein the organic electroluminescent element contains a phosphorescent compound.

7. (Original) The organic electroluminescent element of claim 6, wherein the phosphorescent compound is an osmium complex, an iridium complex or a platinum complex.

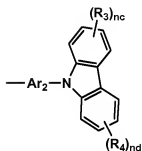
8. (Previously Presented) An organic electroluminescent element comprising an anode, a cathode and a component layer including a light emission layer, the component layer being provided between the anode and the cathode, wherein the component layer contains a compound represented by formula 3,

Formula 3



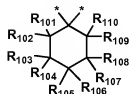
wherein A_2 represents a group represented by formula 4, provided that plural A_2 may be the same or different,

Formula 4



wherein Ar_2 represents a divalent aromatic hydrocarbon or aromatic heterocyclic group; R_3 and R_4 independently represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted cycloalkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted alkoxy group, a substituted or unsubstituted aryloxy group, a cyano group, a hydroxyl group, a substituted or unsubstituted alkenyl group, or a halogen atom; nc and nd independently represent an integer of from 1 to 4; m represents an integer of 2; and X_2 represents a group represented by formula (I), (m), or (o),

Formula (I)



Formula (m)



Formula (o)



wherein R_{101} through R_{110} independently represent a hydrogen atom, an alkyl group, or an alkoxy group, provided that R_{101} through R_{110} does not simultaneously hydrogen atoms; and any two of R_{101} through R_{110} do not combine with each other to form a ring; R_{111} through R_{118} independently represent a hydrogen atom, an alkyl group, or an alkoxy group; A_5 , A_6 , A_7 , and A_8 independently represent $-C(R_{k2})=$ or $-N=$; X_b represents $-N(R_{k3})=$ or $-Si(R_{k4})(R_{k5})-$, which R_{k2} , R_{k3} , R_{k4} , and R_{k5} independently represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted cycloalkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted alkoxy group, a substituted or unsubstituted aryloxy group, a cyano group, a hydroxyl group, a substituted or unsubstituted alkenyl group, or a halogen atom; and “*” represents a linkage site.

9. (Original) The organic electroluminescent element of claim 8, wherein a hole blocking layer is provided between the light emission layer and the cathode.

10. (Original) The organic electroluminescent element of claim 9, wherein the hole blocking layer is comprised of at least one selected from the group consisting of a styryl compound, a triazole derivative, a phenanthroline derivative, an oxadiazole derivative and a boron derivative.

11. (Original) The organic electroluminescent element of claim 9, wherein the hole blocking layer is comprised of at least one selected from the group consisting of compounds represented by formula 5, 6, 7 or 8 above.

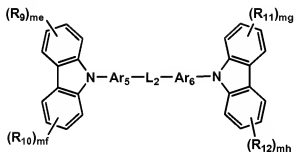
12. (Original) The organic electroluminescent element of claim 8, wherein the light emission layer contains the compound represented by formula 3 above.

13. (Original) The organic electroluminescent element of claim 8, wherein the organic electroluminescent element contains a phosphorescent compound.

14. (Original) The organic electroluminescent element of claim 13, wherein the phosphorescent compound is an osmium complex, an iridium complex or a platinum complex.

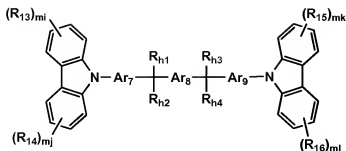
15. (Previously Presented) An organic electroluminescent element comprising an anode, a cathode and a component layer including a light emission layer, the component layer being provided between the anode and the cathode, wherein the component layer contains a compound represented by formula, H2, H3 or H4,

Formula H2



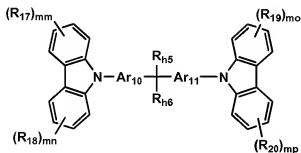
wherein L_2 represents an alkylene group having at least one fluorine atom; Ar_5 and Ar_6 independently represent a divalent aromatic hydrocarbon group or a divalent aromatic heterocyclic group; R_9 , R_{10} , R_{11} , and R_{12} independently represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted cycloalkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted alkoxy group, a substituted or unsubstituted aryloxy group, a cyano group, a hydroxyl group, a substituted or unsubstituted alkenyl group, or a halogen atom; and me, mf, mg, and mh independently represent an integer of from 1 to 4,

Formula H3



wherein Ar_7 , Ar_8 and Ar_9 independently represent a divalent aromatic hydrocarbon group or a divalent aromatic heterocyclic group; R_{h1} , R_{h2} , R_{h3} , and R_{h4} independently represent an alkyl group, a cycloalkyl group, an aralkyl group, an alkoxy group or a halogen atom; R_{13} , R_{14} , R_{15} , and R_{16} independently represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted cycloalkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted alkoxy group, a substituted or unsubstituted aryloxy group, a cyano group, a hydroxyl group, a substituted or unsubstituted alkenyl group, or a halogen atom; and mi , mj , mk , and ml independently represent an integer of from 1 to 4,

Formula H4



wherein Ar_{10} and Ar_{11} independently represent a divalent aromatic hydrocarbon group or a divalent aromatic heterocyclic group; R_{h5} and R_{h6} independently represent a substituted or unsubstituted alkyl group, a substituted or unsubstituted cycloalkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted alkoxy group, a substituted or unsubstituted aryloxy group, a cyano group, a hydroxyl group, a substituted or unsubstituted alkenyl group, a halogen atom, or $\{-C(R_{01})(R_{02})\}_pCF_3$, in which R_{01} and R_{02} independently represent a hydrogen atom or a fluorine atom, and p represents an integer of not less than 0, provided that at least one of R_{h5} and R_{h6} is $\{-C(R_{01})(R_{02})\}_pCF_3$; R_{17} , R_{18} , R_{19} , and R_{20}

independently represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted cycloalkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted alkoxy group, a substituted or unsubstituted aryloxy group, a cyano group, a hydroxyl group, a substituted or unsubstituted alkenyl group, or a halogen atom; and mm, mn, mo, and mp independently represent an integer of from 1 to 4.

16. (Original) The organic electroluminescent element of claim 15, wherein a hole blocking layer is provided between the light emission layer and the cathode.

17. (Original) The organic electroluminescent element of claim 16, wherein the hole blocking layer is comprised of at least one selected from the group consisting of a styryl compound, a triazole derivative, a phenanthroline derivative, an oxadiazole derivative and a boron derivative.

18. (Original) The organic electroluminescent element of claim 16, wherein the hole blocking layer is comprised of at least one selected from the group consisting of compounds represented by formula 5, 6, 7 or 8 above.

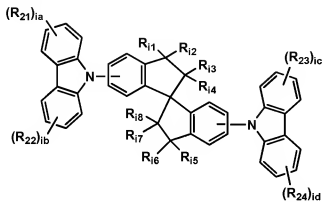
19. (Currently Amended) The organic electroluminescent element of claim 15, wherein the light emission layer contains the compound represented by formula H₁, H₂, H₃, or H₄ above.

20. (Original) The organic electroluminescent element of claim 15, wherein the organic electroluminescent element contains a phosphorescent compound.

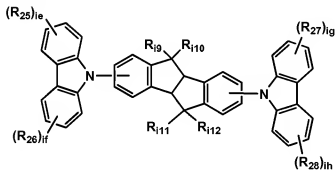
21. (Original) The organic electroluminescent element of claim 20, wherein the phosphorescent compound is an osmium complex, an iridium complex or a platinum complex.

22. (Previously Presented) An organic electroluminescent element comprising an anode, a cathode and a component layer including a light emission layer, the component layer being provided between the anode and the cathode, wherein the component layer contains a compound represented by formula 11, 12 or 13,

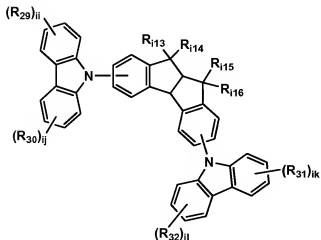
Formula 11



Formula 12



Formula 13



wherein R_{i1} , R_{i2} , R_{i3} , R_{i4} , R_{i5} , R_{i6} , R_{i7} , R_{i8} , R_{i9} , R_{i10} , R_{i11} , R_{i12} , R_{i13} , R_{i14} , R_{i15} , and R_{i16} independently represent a hydrogen atom, an alkyl group, a cycloalkyl group, an aralkyl group, an alkoxy group or a halogen atom; R_{21} , R_{22} , R_{23} , R_{24} , R_{25} , R_{26} , R_{27} , R_{28} , R_{29} , R_{30} , R_{31} , and R_{32} independently represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted cycloalkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted alkoxy group, a substituted or unsubstituted aryloxy group, a cyano group, a hydroxyl group, a substituted or unsubstituted alkenyl group, or a halogen atom; and ia, ib, ic, id, ie, if, ig, ih, ii, ij, ik, and io independently represent an integer of from 1 to 4.

23. (Original) The organic electroluminescent element of claim 22, wherein a hole blocking layer is provided between the light emission layer and the cathode.

24. (Original) The organic electroluminescent element of claim 23, wherein the hole blocking layer is comprised of at least one selected from the group consisting of a styryl compound, a triazole derivative, a phenanthroline derivative, an oxadiazole derivative and a boron derivative.

25. (Original) The organic electroluminescent element of claim 23, wherein the hole blocking layer is comprised of at least one selected from the group consisting of compounds represented by formula 5, 6, 7 or 8 above.

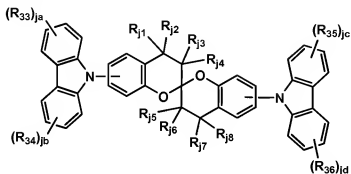
26. (Original) The organic electroluminescent element of claim 22, wherein the light emission layer contains the compound represented by formula 11, 12 or 13 above.

27. (Original) The organic electroluminescent element of claim 22, wherein the organic electroluminescent element contains a phosphorescent compound.

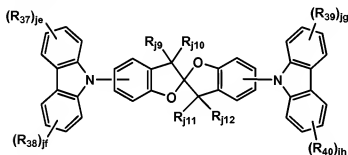
28. (Original) The organic electroluminescent element of claim 27, wherein the phosphorescent compound is an osmium complex, an iridium complex or a platinum complex.

29. (Original) An organic electroluminescent comprising an anode, a cathode and a component layer including a light emission layer, the component layer being provided between the anode and the cathode, wherein the component layer contains a compound represented by formula J1 or J2,

Formula J1



Formula J2



wherein R_{j1} , R_{j2} , R_{j3} , R_{j4} , R_{j5} , R_{j6} , R_{j7} , R_{j8} , R_{j9} , R_{j10} , R_{j11} , and R_{j12} independently represent a hydrogen atom, an alkyl group, a cycloalkyl group, an aralkyl group, an alkoxy group or a halogen atom; R_{33} , R_{34} , R_{35} , R_{36} , R_{37} , R_{38} , R_{39} , and R_{40} independently represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted cycloalkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted alkoxy group, a substituted or unsubstituted aryloxy group, a cyano group, a hydroxyl group, a substituted or unsubstituted alkenyl group, or a halogen atom; and ja, jb, jc, jd, ie, jf, jg, and jh independently represent an integer of from 1 to 4.

30. (Original) The organic electroluminescent element of claim 29, wherein a hole blocking layer is provided between the light emission layer and the cathode.

31. (Original) The organic electroluminescent element of claim 30, wherein the hole blocking layer is comprised of at least one selected from the group consisting of a styryl compound, a triazole derivative, a phenanthroline derivative, an oxadiazole derivative and a boron derivative.

32. (Original) The organic electroluminescent element of claim 30, wherein the hole blocking layer is comprised of at least one selected from the group consisting of compounds represented by formula 5, 6, 7 or 8 above.

33. (Original) The organic electroluminescent element of claim 29, wherein the light emission layer contains the compound represented by formula J1 or J2 above.

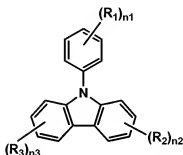
34. (Original) The organic electroluminescent element of claim 29, wherein the organic electroluminescent element contains a phosphorescent compound.

35. (Original) The organic electroluminescent element of claim 34, wherein the phosphorescent compound is an osmium complex, an iridium complex or a platinum complex.

36-42. (Canceled)

43. (Original) An organic electroluminescent element comprising an anode, a cathode and a component layer including a light emission layer, the component layer being provided between the anode and the cathode, wherein the component layer contains an electron transporting material having a phosphorescence 0-0 band of not more than 450 nm, and the light emission layer contains a phosphorescent compound and a compound represented by formula A,

Formula A

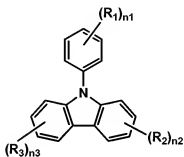


wherein R_1 , R_2 and R_3 independently represent a substituted or unsubstituted alkyl group or a substituted or unsubstituted cycloalkyl group; n_1 represents an integer of from 0 to 5; and n_2 and n_3 independently represent an integer of from 0 to 4, provided that R_1 and R_2 , R_1 and R_3 , or R_2 and R_3 , each may combine with each other to form a ring.

44. (Original) The organic electroluminescent element of claim 43, wherein the organic electroluminescent element emits a white light.

45. (Previously Presented) An organic electroluminescent element comprising an anode, a cathode and a component layer including a light emission layer, the component layer being provided between the anode and the cathode, wherein the component layer contains a hole transporting material having a phosphorescence 0-0 band of not more than 480 nm, and the light emission layer contains a phosphorescent compound and a compound represented by formula A:

Formula A

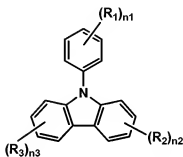


wherein R_1 , R_2 and R_3 independently represent a substituted or unsubstituted alkyl group or a substituted or unsubstituted cycloalkyl group; n_1 represents an integer of from 0 to 5; and n_2 and n_3 independently represent an integer of from 0 to 4, provided that R_1 and R_2 , R_1 and R_3 , or R_2 and R_3 , each may combine with each other to form a ring.

46. (Original) The organic electroluminescent element of claim 45, wherein the organic electroluminescent element emits a white light.

47. (Previously Presented) An organic electroluminescent element comprising an anode, a cathode and a component layer including a light emission layer, the component layer being provided between the anode and the cathode, wherein the light emission layer contains a phosphorescent compound having a phosphorescence 0-0 band of not more than 480 nm and a compound represented by formula A:

Formula A



wherein R_1 , R_2 and R_3 independently represent a substituted or unsubstituted alkyl group or a substituted or unsubstituted cycloalkyl group; n_1 represents an integer of from 0 to 5; and n_2 and n_3 independently represent an integer of from 0 to 4, provided that R_1 and R_2 , R_1 and R_3 , or R_2 and R_3 , each may combine with each other to form a ring.

48. (Original) The organic electroluminescent element of claim 47, wherein the organic electroluminescent element emits a white light.

49. (Previously Presented) A display comprising the organic electroluminescent element of any one of claims 1, 8, 15, 22, 29, 43, and 45.

50. (Previously Presented) An illuminator comprising the organic electroluminescent element of any one of claims 1, 8, 15, 22, 29, 43, and 45.

51. (Original) A display comprising the illuminator of claim 50, and a liquid crystal cell as a displaying element.